

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/009597

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> H01R13/639

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H01R13/639

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004  
 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                          | Relevant to claim No. |
|-----------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X<br>A    | JP 11-26086 A (Sumitomo Wiring Systems, Ltd.),<br>29 January, 1999 (29.01.99),<br>Full text; all drawings<br>(Family: none) | 1,12<br>2-11,13-25    |
| A         | JP 2001-266993 A (NEC Gunma, Ltd.),<br>28 September, 2001 (28.09.01),<br>Full text; all drawings<br>(Family: none)          | 1-25                  |
| A         | JP 8-64304 A (Matsushita Electric Works, Ltd.),<br>08 March, 1996 (08.03.96),<br>Full text; all drawings<br>(Family: none)  | 1-25                  |

 Further documents are listed in the continuation of Box C. See patent family annex.

|                                          |                                                                                                                                                                                                                                              |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * Special categories of cited documents: |                                                                                                                                                                                                                                              |
| "A"                                      | document defining the general state of the art which is not considered to be of particular relevance                                                                                                                                         |
| "E"                                      | earlier application or patent but published on or after the international filing date                                                                                                                                                        |
| "L"                                      | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)                                                                          |
| "O"                                      | document referring to an oral disclosure, use, exhibition or other means                                                                                                                                                                     |
| "P"                                      | document published prior to the international filing date but later than the priority date claimed                                                                                                                                           |
| "T"                                      | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention                                              |
| "X"                                      | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone                                                                     |
| "Y"                                      | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "&"                                      | document member of the same patent family                                                                                                                                                                                                    |

Date of the actual completion of the international search  
05 October, 2004 (05.10.04)Date of mailing of the international search report  
26 October, 2004 (26.10.04)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/009597

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                           | Relevant to claim No. |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| A         | Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 28128/1983 (Laid-open No. 136175/1984)<br>(Marantz Japan, Inc.),<br>11 September, 1984 (11.09.84),<br>Full text; all drawings<br>(Family: none) | 1-25                  |
| A         | US 6012941 A (Igor BURDENKO),<br>11 January, 2000 (11.01.00),<br>Full text; all drawings<br>(Family: none)                                                                                                                                                   | 1-25                  |
| A         | US 4846708 A (MICHIGAN BELL TELEPHONE CO.),<br>11 July, 1989 (11.07.89),<br>Full text; all drawings<br>& US 4911646 A                                                                                                                                        | 1-25                  |
| A         | US 4740168 A (PORTA SYSTEMS CORP.),<br>26 April, 1988 (26.04.88),<br>Full text; all drawings<br>(Family: none)                                                                                                                                               | 1-25                  |